

**CHEMICAL ARRAYS WITH ORIENTED ROWS**

**ABSTRACT OF THE DISCLOSURE**

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A method of fabricating an array of multiple features of different chemical moieties on a substrate surface, and a method of using arrays so fabricated. The fabrication method includes determining an identity of a first direction across the substrate surface (such as a drawn direction) along which the substrate surface has a higher height uniformity than 10 along a second direction across the substrate. Chemical moieties are placed on the substrate so as to provide features thereon along rows more closely aligned with the first direction than the second direction.

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